1989

KODIAK MANAGEMENT AREA HERRING SAC-ROE HARVEST STRATEGY

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ABSTRACT

The 1989 Kodiak herring sac-roe fishery guideline harvest level is 2.415 tons. The season for this fishery will begin at 12:00 noon on April 15 and will close at 12:00 noon on June 30. Fishing periods will be 24 hours in duration and each will begin at 12:00 noon on odd numbered days and end at 12:00 noon on even numbered days.

The Kodiak sac-roe fishery is currently managed by the use of 57 management units which are treated as individual stocks and have a history of sac-roe harvests. Additionally there are 14 exploratory management units which potentially support sac-roe stocks and 6 management units which occur offshore and are not perceived to have habitat suitable for spawning activity to occur.

<u>Guideline Harvest Levels (G.H.L.) are provided for each of the 57 management units as shown in Table 1 on page 11.</u> In-season emergency order closures for each unit will occur as the G.H.L.'s for each unit are achieved or exceeded. Closures may also result prior to attaining a G.H.L. if the fishery performance indicates that stock status is weaker than expected.

All in-season emergency order closures or reopenings will be broadcasted on 4125 Khz by Peggy Dyson following her daily marine weather broadcasts at 8:00 a.m. and 6:00 p.m. Additionally, news releases will be available both inside and outside the Kodiak ADF&G building at past locations.

There are several new regulations that will be in effect for the first time during the 1989 season. These regulations are listed on page 2: A complete copy of the Kodiak Area Herring Regulations are attached to the Harvest Strategy.

All herring buyers/processors and all tenders are required to register at the Kodiak ADF&G office prior to commencing operations in the Kodiak Area. There is no special vessel registration required for fishing vessels.

1988 KODIAK AREA HERRING SAC-ROE FISHERY

INTRODUCTION

The Kodiak Area herring sac-roe fishery has occurred annually since 1964, a 25 year period. This fishery was an open-to-entry fishery from 1964 to 1980, and was under a moratorium-to-newentry fishery from 1981 to 1984, and has been a limited entry fishery from 1985 to present. Effort levels during these latter years are shown in Table 2 on page 15. A listing of entry permits issued by gear type as of January 1988 is shown in Table 3 on page 16.

This fishery targets on individual herring stocks during their spawning period. The desired product is pre-spawn herring having a roe recovery percentage acceptable to industry. In recent years the average roe recovery has approximated 10% in this fishery.

During this 25 year period the average harvest has been 1,314 tons. For the ten (10) year period from 1979-1988, when both seine and gillnet gear levels have evolved through similar regulatory adjustments, the average harvest has been 2,028 tons. The annual harvest levels during this nine year period have oscillated closely around this average harvest (Table 2, page 15).

GENERAL HARVEST POLICY

Harvesting is intended to occur in an orderly fashion with minimal waste of the resource and within conservation limits as determined by the Alaska Department of Fish and Game (ADF&G). Consequently, ADF&G will manage the fishery per the statewide general herring policy which provides for harvesting to occur in traditional in-shore areas and at the traditional time of greatest roe recovery value, so much as possible. However, roe recovery will not be a criteria for emergency openings or closures except in cases where documented excessive wastage is, or is expected to be, a factor.

Because of the differential timing and abundance of Kodiak's various exploited herring stocks, relatively high ratio of gear levels to Guideline Harvest Levels (GHL's), and the competition between gear types for the same stocks, this fishery is best served by a fixed opening date, which is currently April 15. The season will close for each stock by emergency order as their respective guideline harvest levels are achieved or when fishery performance and stock performance indicate that deviations from the guideline harvest levels are warranted, i.e. where actual harvests occur at levels greater or lesser than expected. Stocks which are considered to be under-exploited in-season will

remain open until the regulatory closure of June 30. During the regulatory season, April 15 to June 30, stocks which have been closed to harvesting may be reopened if it is determined by ADF&G that "new" fish have increased the available spawning biomass to the point that the initial exploitation rate has dropped below 10% for that stock (See Table 1.) Any reopenings will require confirmation that the "new" fish are not juvenile herring, post spawners, or other forage fish and will require that ADF&G have the ability to monitor and regulate the reopening "on the grounds". At least 24 hours notice will be given prior to any reopenings.

REGULATORY ABSTRACT

REGULATIONS IN EFFECT:

A complete copy of the 1989 Commercial Herring Regulation is attached to this Harvest Strategy on page 18. The 1989 Commercial Herring Fishing Regulation Book will not be available by the season's opening date. The Kodiak Management Area regulations attached to this management plan are the correct regulations for the 1989 season. The General Provisions and selected statutes in the 1988 Herring Regulation Book will apply for the 1989 season. A listing of the new regulations for 1989 is as follows:

NEW REGULATIONS FOR 1989

5 AAC 27.505 DESCRIPTION OF DISTRICTS AND SECTIONS (b)(2)(B)

- The common boundary line between the West Uganik Section and the Terror Bay Section has been moved east from 153°20' W. long to 153°15'42" W. long.
- See page 21 of this Harvest Strategy, section (b)(2) and (b)(2)(B).

5 AAC 27.515 GEAR (b)

- New wording has been added to the section describing the conditions under which a herring vessel may operate its gear.
 - The new wording states:..., except that a herring fishing vessel may tow or transport other herring fishing vessels containing those vessels own gear.
- See page 23 of this Harvest Strategy, section (b)

5 AAC 27.520 GILL NET SPECIFICATIONS AND OPERATION (c)

- New wording has been added to the section describing how gill nets must be marked.
 - the new wording states:..., All buoys must be at least 10 inches in diameter and all buoys used on an individual gill net must be of the same color.
- See page 24 of this Harvest Strategy, section (c).

5 AAC 27.530 WATERS CLOSED TO HERRING FISHING (b)(1)

- The 500 yard closure off of the mouth of Browns Lagoon has been eliminated.
 - The new wording describing closed waters states:..., Browns Lagoon: in the lagoon.
 - See page 24 of this Harvest Strategy, section (b)(1).

5 AAC 27.535 HARVEST STRATEGIES (2)(c)

- New wording describes the harvest allocation of Kodiak herring stocks between Kodiak's sac-roe fishery and its food/bait fishery.
 - Also described is the harvest allocation of Kamishak (Cook Inlet) stocks between the Kamishak sac-roe fishery and the Kodiak food/bait fishery.
- See page 24 of this Harvest Strategy, sections (2)(c).

5 AAC 27.536 SIZE LIMITS

- This is a new section defining a minimum size limit for herring landed as determined by a sampling method consistent with the sampling method for determining a roe percentage for each landing.
 - The new wording states: No CFEC herring seine permit holder may sell or have aboard a vessel any herring that were taken during the herring sac-roe season if the number of individual herring per 50 pounds of net weight exceeds 250 fish.

- See page 24 of this Harvest Strategy.
- This regulation was developed by Kodiak ADF&G staff in order to provide adequate protection to any stock heavily dominated by recruit-age fish. This regulation was supported by the Kodiak Fish and Game Advisory Committee and was unanimously supported by the Alaska Board of Fisheries.
 - It was recognized that this regulation was unique for the State's sac-roe fisheries, however the Kodiak sac-roe fishery itself is unique in the manner it is conducted. By allowing a free-roaming fleet to randomly harvest any of the recognized 57 stocks without 100% on-the-grounds monitoring by ADF&G, the potential negative impact on all stocks is relatively high. This is particularly true for smaller stocks heavily composed of recruit-age fish. This regulation was intended to provide biological protection for these stocks without affecting the unique nature of Kodiak's sac-roe fishery.
 - All fishermen must be able to evaluate, on the grounds, before "seined-up" herring are killed, if the school of herring they've captured is comprised of large enough herring so that a weighed sample of 50 pounds is not comprised of more than 250 fish, i.e. the herring are large enough that it doesn't require 5 or more herring to yield one pound of net weight.

This can be determined through the normal process of sampling seined-up herring for adequate roe-recovery. At that time, through the use of a small scale, it can be determined if the "number per weight" requirements will be met, i.e. the number of herring comprising the catch does not exceed 250 fish per 50 pounds of net weight.

It will be illegal to possess or sell a quantity of herring which, when sampled, does not meet this minimum size limits of 250 fish per 50 pounds of net weight.

REGISTRATION REQUIREMENTS:

Tenders and Processors

The tender registration procedure requires:

Each tender operator and processor must register either in person or may be registered by an authorized agent for the tender or processor.

Registration must occur prior to taking fish on-board the tender or taking fish at the processing plant.

Registration will ensure that all tenders and processors know the proper reporting requirements needed by ADF&G to manage the herring sac-roe fishery.

THIS REGULATION WILL BE STRICTLY ENFORCED FOR THE 1989 SEASON!

 (See Regulation 5 AAC 27.540 of the Commercial Herring Regulations.

Fishing Vessels

There are no special registration requirements for either seine or gillnet vessels.

GUIDELINE HARVEST LEVELS:

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For the 1989 sac-roe season, approximately 2,415 short tons are expected to be harvested from the entire management area. Harvest projections by management unit are listed in Table 1.

These harvest projections are the best estimates of desired harvest levels for each stock based upon ADF&G evaluation of stock status. These harvest projections are not guaranteed quotas and the actual harvest may exceed or fall short of these projections.

In-season evaluation of each stocks actual status will be guided by several criteria associated with <u>stock</u> <u>performance</u>, e.g. biomass estimates, etc! and with <u>fishery</u> <u>performance</u>, e.g. fishery timing and duration, etc!

FISHING SEASON

April 15 through June 30 unless closed earlier by emergency order on a stock by stock basis.

Closures may result from desired harvest levels of each stock either being achieved or else in jeopardy of being significantly exceeded. Closures may also result when unexpected weaknesses in stock strength become apparent.

FISHING PERIODS

Initially, fishing periods will be 24 hours long. They will begin at 12:00 Noon on all odd numbered days and end at 12:00 Noon on all even numbered days. The first 24 hour fishing period will begin at 12:00 Noon on April 15.

CLOSED AREAS:

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Regulatory Closures

<u>Women's Bay</u> is closed inside of a line from Shannon's Point to Nyman's Peninsula. The latitudes and longitudes of these points are described in regulation 5 AAC 27.530.

1989 Emergency Order Closures:

All Uganik Island Lagoons will remain closed until it can be determined that specific and adequate spawning biomasses are available for harvest.

EXTRA TIME FOR GILLNETTERS

Under certain conditions, herring gillnetters are allowed a <u>two hour</u> grace period before having to completely remove their gear from the water. These conditions are:

- 1. Herring gillnets may remain in the water up to <u>two</u> <u>hours</u> after the announced "primary closure time" for those announced fishing periods having fishing time of three hours or less.
- 2. Herring gillnets may remain in the water up to two hours after the announced "primary" closure time for those fishing periods greater than three hours in length, where the announcement occurs less than three hours before the scheduled "primary closure time" of the fishing period.

The "primary closure time" is the time at which all seine gear must have completed fishing. When it applies, the "secondary closure time", i.e. at the end of the two hour grace period for gillnet gear, ALL GILLNETS MUST BE COMPLETELY OUT OF THE WATER AND NO GILLNET GEAR MAY BE SET OR RESET AFTER THE "PRIMARY CLOSING TIME".

AIRPLANES:

There are no restrictions on the use of airplanes in the roe herring fishery.

LEGAL GEAR:

See regulations 5 AAC 27.515, 27.520, and 27.525 on pages 23 and 25 of this "Harvest Strategy" document.

IN-SEASON STRATEGY

General Discussion

As shown in Table 1, those sections where historical harvests have occurred have been assigned guideline harvest levels. Those sections where sporadic or no harvests have occurred have been designated "Exploratory" with no designated guideline harvest level, however in-season closures will be used to ensure that excessive harvests are minimized in exploratory situations.

The guideline harvest levels established for each section, district and/or the entire management area are meant to reflect the stock status. This means that the previous season's <u>stock performance</u> has been evaluated and that trends have been identified and used to influence the current season's GHL's. Specifically, these criteria are 1) 1989 expected biomass vs. actual biomass estimates, 2) average school size, 3) trends in age composition, 4) level of recruitment (age 3), 5) proportion of the spawning population age 5 and younger, 6) level of age 2 fish in the spawning biomass (indicator of future recruit strength) and 7) spawn observations (extent, frequency, amount deposited). This information is supplemented by <u>fishery performance</u> information, namely the expected vs. actual harvest timing, harvest duration, and harvest level.

Guideline harvest level adjustments are subsequently made based upon the aforementioned criteria. Adjustments may vary from 0 to \pm 100% of the previous season's GHL depending upon the degree remedial action is required, generally adjustments are gradual, \pm 25% or \pm 50%. For the 1989 season most stocks were adjusted by +25%. Several stocks were adjusted by +50% and a few remained at the 1988 level (particularly smaller stocks). Only one was adjusted by-25%; there were no downward adjustments greater than -25%.

At any time in-season, closed area adjustments can be made when it appears that pre-season expectations were wrong. Consequently there may be sections either closed prior to reaching their GHL's or allowed to harvest in excess of their GHL's either in one opening or reopenings if the assessed available spawning biomass warrants it.

Fishing Periods

Initially, fishing periods will begin at 12:00 Noon on the odd numbered days of the month beginning on April 15 and end at 12:00 Noon on the even numbered days. Staggered days of fishing have the advantage of providing clearly defined closed periods which allow the staff time to collect, summarize, and update all harvest data from previous fishing periods; it allows for comparisons between reported and actual harvests. Since 1979, the occurrence of significant excessive harvests in this fishery have been prevented by providing these pre-established fishing periods. the end of the season (usually early June) when fleet size and exploited stocks are few in number, fishing periods may be modified to provide more continuous fishing time to facilitate adequately harvesting late occurring stocks. However, ADF&G's ability to monitor this fishery becomes very limited by late May and June and this will be a major consideration in the nature of fishing period modifications.

For the 1989 sac-roe fishery, more restrictive adjustments in fishing periods are not expected to occur. However, in the event that active gear levels expand or become unexpectedly efficient to the point that a pattern of excessive harvests develop, deviations from the normal 24 hour fishing periods may be required.

E.O. Announcements: "Getting the Word"

Because the management strategy for this fishery allows for all gear to fish all open areas during the open fishing periods, there is considerable dispersion of gear throughout Consequently, it is very important for the the season. fleet to keep abreast of any changes in closures, potential short notice closures, and/or reopenings. This can be accomplished in the following ways: 1) By personal contact with the Kodiak Herring Management staff in Kodiak via office visits, telephone (either at work or at home), or radio-telephone; 2) By contact with ADF&G field personnel and the ADF&G vessel, the M/V COHO; 3) By contacting Peggy Dyson on 4125 mhs or any local herring processor and having them transmit the latest Kodiak herring emergency order; 4) By calling the 24-hour recorded message phone at 486-4559; 5) By listening for any emergency order update which will be broadcast by Peggy Dyson following either her 8:00 A.M. or 6:00 P.M. weather broadcasts; 6) By reading or collecting the latest emergency order from the pouch posted outside the entrance to the Kodiak Fish and Game building; and 7) By listening to the Fish and Game reports broadcast over the local AM and FM radio stations (consult stations for broadcast times). No announcements will be given via VHF because of the limited broadcast range from the Kodiak

office; however special consideration may be given to the Chiniak Bay fishery if the VHF base station is operational for the 1989 season.

Because of the extensive announcements associated with this fishery, it is highly recommended that fishermen document the latest E.O. announcement broadcast from Peggy Dyson by either marking a chart or making a tape recording of her broadcast. Many fishermen currently do this as do the ADF&G and F&W protection vessels.

ADF&G Field Crews/Fishermen Cooperation:

The crew on board the Department's M/V COHO and seasonal biologists in remote tent camps will aid the Area Management Biologists by making frequent fishermen contacts in order to collect data on harvest levels and rates, fleet movements, and fleet observations of herring concentrations. Fishermen cooperation will be appreciated when Department personnel request herring samples from the commercial catch; also, samples from juvenile schools inadvertently seined-up will be gladly accepted by all ADF&G personnel. These samples will be used primarily for monitoring age composition, which assists in determining the health of the stock when used with other stock performance indicators. Copies of historical age data by stock are readily available at the Kodiak ADF&G office.

ADF&G field crews will also be monitoring and mapping spawning activities, and all will be soliciting information on commercial sightings to supplement information gathered by ADF&G. Fishermen and spotter pilots are encouraged to provide biomass and spawning information to ADF&G; these reports will be treated confidentially. Past cooperation has generally been excellent and has proven valuable in evaluating stock status and in gaining critical management information.

Because of concern over the occurrence of oil from the March 24, 1989 oil spill in P.W.S. affecting Kodiak fish stocks, habitat, and other wildlife, any information on oil encountered by fishing vessels, tenders and spotter pilots should be passed along to ADF&G personnel for documentation.

In-Season Catch Reporting

With approximately 100+ limited entry permit holders expected to fish during the 1989 sac-roe season, frequent aerial surveys and timely catch reports will continue to be an important management tool, particularly in areas that are not covered by field crews. Timely and accurate catch information provided by the processors and fishermen will be

essential in managing the fishery. Processors and independent tender operators will be required to provide daily tallies of herring deliveries by statistical area and must provide accurate estimates of herring onboard tenders that have not yet delivered to the cannery. Inaccurate or untimely information could result in the closure of an area. Individual code sheets will be provided for each tender or processor that is required to report catches on a daily basis by radio. Each tender operator and buyer must register with the Department prior to fishing and will be given a packet containing regulations, statistical charts, etc.

Guideline Harvest Level

The 1989 sac-roe harvest should be the largest on record, exceeding the 1988 harvest by approximately 15%; approximately 2.415 tons are expected to be harvested. If recruitment is above average in several major stocks or if virgin stocks are exploited, the actual harvest may well exceed the GHL. If, however, recruitment is generally weak area-wide and/or adverse weather conditions prevail throughout the season the actual harvest may be significantly less than the GHL.

The listing in Table 1, "GUIDELINE HARVEST LEVELS BY MANAGEMENT UNIT" will be used as an aid in making in-season management decisions. These harvest levels are meant to reflect the status of each listed stock, however, some stocks lack the data base needed for adequate evaluation. Consequently, annual harvest levels for these stocks may fluctuate considerably until their status is more clearly understood. Again, all fishermen, pilots and processors are encouraged to provide the ADF&G management staff with any information or estimates on stock size they may accumulate either in-season or post-season.

TABLE 1 KODIAK HERRING SAC ROE FISHERY GUIDELINE HARVEST LEVELS BY STOCK

STAT. AREA	MGMT. UNITS	1989 GUIDELINE HARVEST LEVEL	REQUIRED SPA 0 10% EXPLOITATION	WNING BIOMASS N 020% EXPLOITATIO
	AFOGNAK DISTRICT		·	
A010	Raspberry Sts.	55 TONS	550 Tons	275 Tons
A020	Malina Bay	30 TONS	300 Tons	150 Tons
A031	Paramanof Bay	40 TONS	400 Tons	200 Tons
A032	Foul Bay	30 TONS	300 Tons	150 Tons
A040	Devils Inlet	10 TONS	100 Tons	50 Tons
A040	Blue Fox	10 TONS	100 Tons	50 Tons
A050	Offshore W. Afog	.1/ -	<u>1</u> /	1/
A060	Shuyak Is.	20 TONS	200 Tons	100 Tons
A070	Perenosa Bay	15 TONS	150 Tons	75 Tons
A071	Delphin Bay	10 TONS	100 Tons	50 Tons
A072	Seal Bay	10 TONS	100 Tons	50 Tons
A080	Tonki Bay	15 TONS	150 Tons	75 Tons
A090	Izhut Bay	25 TONS	250 Tons	125 Tons
A091	Kitoi Bay	15 TONS	150 Tons	75 Tons
A092	MacDonalds Lagoo	n 10 TONS	100 Tons	50 Tons
A100	Danger Bay	30 TONS	300 Tons	150 Tons
A101	Litnik	15 TONS	150 Tons	75 Tons
A102	Duck Bay	10 TONS	100 Tons	50 Tons
Distr	rict Totals 17	350 TONS	3,500 Tons	1,750 Tons

STAT. AREA	MGMT. UNITS	1989 GUIDELINE HARVEST LEVEL	REQUIRED SP @10% EXPLOITATIO	AWNING BIOMASS N 020% EXPLOITATION
	UGANIK DISTRICT			
UG10	Kupreanof	10 TONS	100 Tons	50 Tons
UG20	Viekoda	30 TONS	300 Tons	150 Tons
UG21	Terror	80 TONS	800 Tons	400 Tons
UG21	Uganik, Is. Lagod	n2/ CLOSED	<u>2</u> /	<u>2</u> /
UG30	Village Island	30 TONS	300 Tons	150 Tons
UG31	W. Uganik Pass	15 TONS	150 Tons	75 Tons
UG32	NE Arm Uganik	75 TONS	750 Tons	375 Tons
UG33	E. Arm Uganik	40 TONS	400 Tons	200 Tons
UG34	S. Arm Uganik	40 TONS	400 Tons	200 Tons
UG40	Offshore Uganik []]	L/ _	1/	1/
Distr	ict Totals 9	320 TONS	3,200 Tons	1,600 Tons
	UYAK DISTRICT			
UY10	Offshore Uyak1/	• •	1/	1/
UY20	Harvester Island	d 10 TONS	100 Tons	50 Tons
UY30	Inner Uyak	240 TONS	2,400 Tons	1,200 Tons
UY30	Browns Lagoon	20 TONS	200 Tons	100 Tons
UY31	Larsen Bay	10 TONS	100 Tons	50 Tons
UY40	Zachar Bay	100 TONS	1,000 Tons	500 Tons
UY50	Spiridon Bay	160 TONS	1,600 Tons	800 Tons
Distr	rict Totals 6	540 TONS	5,400 Tons	2,700 Tons
	ALITAK DISTRICT			
AL10	Outer Alitak	(Exploration)	<u>3</u> /	<u>3</u> /
AL20	Inner Alitak	(Exploration)	<u>3</u> /	<u>3</u> /
AL21	Deadman Bay	125 TONS	1,250 Tons	625 Tons
AL30	Sulua/Portage B	ay 60 TONS	600 Tons	300 Tons
AL40	Lower Olga/Mose	r <u>4</u> / 15 TONS	150 Tons	75 Tons
AL40	No. Upper Olga	B.4/ 10 TONS		
AL50	So. Upper Olga	B. <u>4</u> /190 TONS	1,900 Tons	850 Tons
AL60	Geese/Twoheaded	(Exploration)	<u>3</u> /	<u>3</u> /
Distr	ict Totals: 7	400 TONS	4,000 Tons	2,000 Tons

STAT. AREA	MGMT. UNITS	1989 GUIDELINE HARVEST LEVEL		AWNING BIOMASS 1 020% EXPLOITATION
	STURGEON/HALIBUT	DISTRICT		
SH10	Sturgeon/Halibut	(Exploration)	<u>3</u> /	<u>3</u> /
**************************************	GENERAL DISTRICT		······································	
G010	Kaiugnak	10 TONS	100 Tons	50 Tons
G020	W. Sitkalidak St	. (Exploration)	<u>3</u> /	<u>3</u> /
G021	Barling	20 TONS	200 Tons	100 Tons
G022	E. Sitkalidak St	. 95 TONS	950 Tons	475 Tons
G023	Tanginak Anchora	ge 15 TONS	150 Tons	75 Tons
G030	Outer Sitkalidak	(Exploration)	<u>3</u> /	<u>3</u> /
G O 4 ₉ 0	Outer Kiliuda	(Exploration)	<u>3</u> /	<u>3</u> /
G041	Inner Kiliuda	10 TONS	100 Tons	50 Tons
G042	Shearwater	25 TONS	250 Tons	125 Tons
G050	Pasagshak	25 TONS	250 Tons	125 Tons
G050	Outer Ugak	(Exploration)	<u>3</u> /	<u>3</u> /
G051	Inner Ugak	50 TONS	500 Tons	250 Tons
G060	Womens Bay	110 TONS	1,100 Tons	550 Tons
G070	Monashka/Mill B.	(Exploration)	<u>3</u> /	<u>3</u> /
G080	Anton Larsen	30 TONS	300 Tons	150 Tons
G081	Sheratin	10 TONS	100 Tons	50 Tons
G090	Kizhuyak	110 TONS	1,100 Tons	550 Tons
G100	Kalsin Bay	20 TONS	200 Tons	100 Tons
G101	Middle Bay	25 TONS	250 Tons	125 Tons
G102	Inshore Chiniak	10 TONS	100 Tons	50 Tons
G103	Spruce Island	10 TONS	100 Tons	50 Tons
Distr	rict Total 21	575 TONS	5,750 Tons	2,875 Tons
	MAINLAND DISTRIC	<u>:</u>		
M010	North Mainland	(Exploration)	<u>3</u> /	<u>3</u> /
M020	Inner Kukak	50 TONS	500 Tons	250 Tons
M030	Outer Kukak1/	-	1/	<u>1</u> /
M040	Inner Missak	(Exploration)	<u>3</u> /	<u>3</u> /
MO40	Outer Missak <u>l</u> /	-	1/	<u>1</u> /
M050	Inner Katmai	50 TONS	500 Tons	250 Tons

STAT. AREA	MGMT. UNITS	1989 GUIDELINE HARVEST LEVEL	REQUIRED SP @10% EXPLOITATIO	AWNING BIOMASS N <u>@20% Exploitation</u>						
MAINLAND DISTRICT (Continued)										
M060	Outer Katmai <u>l</u> /	-	1/	1/						
M070	Alinchak	30 TONS	300 Tons	. 150 Tons						
M080	Puale Bay	(Exploration)	<u>3</u> /	<u>3</u> /						
M090	Portage Bay	(Exploration)	<u>3</u> /	<u>3</u> /						
M100	Outer Portage1/	-	<u>1</u> /	1/						
M110	Wide Bay	100 TONS	1,000 Tons	500 Tons						
M120	Lower Shelikof	(Exploration)	<u>3</u> /	<u>3</u> /						
Distr	ict Total	230 TONS	2,300 Tons	1,150 Tons						
GRAND	TOTAL	2,415 TONS	24,150 Tons	12,075 Tons						

1/These are offshore management units which are not expected to yield herring of sac-roe quality. These units are more applicable to the food/bait fishery. (See Herring Food/Bait Fishery Management Plan.)

2/The Uganik Lagoon Unit refers to all lagoons on Uganik Island. Spawning biomasses associated with these lagoons appear to have been reduced to less than 50 tons, thus all waters of the lagoons located on Uganik Island will be closed to commercial herring fishing effective at 12:00 Noon April 15, 1989.

3/Adequate biomass to justify an "exploratory" harvest; harvest will be required; the actual harvest should not exceed 20% of the available biomass.

 $\frac{4}{\text{The}}$ following management units have been modified either in name or boundaries for the purpose of in-season management of the Olga/Moser Bay herring stocks. Each unit will be described by emergency order when closures are issued for these units.

- AL40 Lower Olga/Moser Unit: Formerly that portion of the Olga/Moser Bay Section south of the latitude of Stockholm Point.
- AL50 North Upper Olga Unit: Formerly that portion of the Olga/Moser Bay Section north of the latitude of Stockholm Point.
- <u>AL50 South Upper Olga Unit:</u> Formerly called the Upper Olga Bay Section.

KODIAK HERRING SAC-ROE FISHERY FISHERY SUMMARY BY YEAR AND BY GEAR

	,			•	•							·
	SEASON LENGTH	TOTAL	BY GEAR		PERCENT		LANDINGS		NO. UNITS		AVG. \$'S	
YEAR	DAYS	HARVEST	SEINE	G/N	SEINE	G/N	SEINE	G/N	SEINE	G/N	SEINE	G/N
1979	36	1735	1457	278	84	16	_	_	57	125	38,347	3,333
1980	35	2383	2009	374	84	16	-	"	92	109	14,978	2,573
1981	48	2065	1596	469	77	23	207	406	79	114	14,402	3,471
1982	59	1771	1447	324	82	18	138	191	45	67	17,819	2,719
1983	51	2319	1797	522	78	22	164	284	41	64	35,061	6,520
1984	54	2163	1691	472	78	22	138	212	39	69	34,691	5,467
1985	59	1968	1244	724	63	37	118	348	34	81	32,935	8,039
1986	61	1558	1110	448	71	29	132	385	31	71	34,010	6,002
1987	61	2146	1591	554	74	26	122	411	29	62	54,872	8945
1988	59	2171	1303	867	60	40	169	555	33	76	51350	14837
10 YEAR AVG.	52	2028	1525	503	75	25	148	349	48	84	32847	6191

STATUS OF KODIAK SAC-ROE HERRING PERMITS

<u> 1987</u>	1988
59	63
48	41
107	104
62	76
40	45
<u>26</u>	24
66	69
29	33
99	108
74	<u>65</u>
163	163
91	109
	59 48 107 62 40 26 66 29

1989

HERRING SAC-ROE SEASON ALASKA DEPARTMENT OF FISH AND GAME

KODIAK AREA MANAGEMENT STAFF

<u> Area Management Biologist</u>

Asst. Area Management Biologist

Larry Malloy

Dave Prokopowich

<u>Seasonal Management Biologist</u> <u>Data Summary Technician</u>

Kevin Brennan

Joan Ried

M/V Coho Crew

Herring Field Crew Personnel

Aircraft Pilots

Tom Emerson

4

Kim Rudge

Ed Sampson

Hal Terry

Dennis Gretsch

Leslie Scott

John Becker

Larry Nicholson

Deb Robinson

Bruce MacIntosh

Tracy McKinion

Ed Hajdys

Mo Lambdin

Terry Kimball

REGIONAL SUPERVISOR:

Larry Nicholson

REGIONAL FINFISH COORDINATOR:

Pete Probasco

1989

KODIAK MANAGEMENT AREA COMMERCIAL HERRING REGULATIONS

- THESE REGULATIONS WERE COPIED FROM TITLE 5, OCTOBER 1988 VERSION
- THESE REGULATIONS WILL BE IDENTICAL TO THE REGULATIONS WHICH WILL APPEAR IN THE 1989 COMMERCIAL HERRING REGULATION BOOKLET WHEN IT FINALLY BECOMES AVAILABLE.
- THE STATEWIDE PROVISIONS AND THE SELECTED STATUTES ARE NOT INCLUDED WITH THE ATTACHED COPY; THE 1988 COMMERCIAL HERRING REGULATION BOOKLET CONTAINS BOTH OF THESE TYPES OF REGULATIONS.

(b) Herring may be taken in the Eastern, Outer, Southern and Kamishak Bay districts from July 1 through February 28. During the period April 15 to June 30, the fishery will be opened and closed by emergency order. (In effect before 1987; am 3/29/87, Register 101)

Authority: AS 16 05 060 AS 16.05.251

5 AAC 27.430. GEAR. (a) In the Southern, Outer, Eastern and Kamishak Bay districts, herring may be taken only by purse seines from April 15 to June 30, and by seines, gill nets and trawls from July 1 through February 28.

(b) In the Northern and Central districts, herring may be taken only by gill nets from April 15 to June 30, except that in the Chinitna Bay subdistrict herring may only be taken by set gill nets.

(c) Herring pounds may be used from October 1 through April 15 under terms of a permit secured from the commissioner, or his authorized representative. (In effect before 1988)

Authority: AS 16.05.251(a)

5 AAC 27.431. GILL NET SPECIFICATIONS AND OPERA-TION. (a) No herring set gill net may exceed 35 fathoms in length. Each fisherman is allowed to operate 105 fathoms of set gill net in the aggregate.

(b) No person may operate a herring drift gill net that is more than 150 fathoms in length. (In effect before 1988)

Authority: AS 16.05.251(a)

5 AAC 27.432. SEINE SPECIFICATIONS AND OPERA-TION. During the period April 15 to June 30, no purse scine may be more than 1,000 meshes in depth or more than 150 futhoms in length. (In effect before 1988)

Authority: AS 16 05.251(a)

5 AAC 27.434. IDENTIFICATION OF GEAR. Set gill nets used to take herring must have a keg or buoy at one end and must be plainly and legibly marked with the fisherman's five digit CFEC permit serial number and his initials. (In effect before 1982; um 4/14/82, Register 82)

Authority: AS 16 05.251(a)

5 AAC 27.435. MINIMUM DISTANCE BETWEEN UNITS OF GEAR. No set gill net may be set or operated within 600 feet of

5 AAC 27.450

FISH AND GAME

5 AAC 27.462

another set gill net, except that this provision does not apply in the Chinitna Bay subdistrict. (In effect before 1988)

Authority: AS 16.05.251(a)

5 AAC 27.450. WATERS CLOSED TO HERRING FISHING.
(a) Herring may not be taken in any waters listed in 5 AAC 21.350(a)—(c).

(b) Herring may not be taken in the Resurrection Bay small boat harbor from April 16 through September 30. (In effect before 1988)

Authority: AS 16.05.251(a)

5 AAC 27.460. GUIDELINE HARVEST LEVELS. Repealed 5/11/85.

Authority: AS 16.05.251

5 AAC 27.462. BUYER REPORTING REQUIREMENTS. In addition to the requirements of 5 AAC 39.130(f), each buyer or buyer's agent operating in the Southern, Kamishak Bay, Barren Island, Outer, and Eastern Districts, shall report in person to, and register with, a local representative of the department before commencing operations. Each buyer shall

(1) identify and describe all vessels to be employed in transport-

ing or processing herring;

(2) report daily all herring purchased from fishermen, or other processing records, as specified by a department representative; and

(3) submit fish tickets before departure from the area and no later than 10 days after termination of buying operations in the area, or as otherwise specified by a local representative of the department. (Eff. 5/11/85, Register 94)

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Authority: AS 16.05.251

Article 8. Statistical Area K-Kodiak Area

Section

500. Description of areas

505. Description of districts, sections, and subsections

510. Fishing seasons and periods

515. Gear

520. Gill net specifications and operations

525. Seine specifications and operations

Bection

530. Waters closed to berring fishing

531. (Repealed)

532. (Repealed)

535. Harvest strategies

536. Size limite

540. Buyer and tender reporting require-

5 AAC 27.500. DESCRIPTION OF AREAS. (a) Statistical area K includes all waters of Alaska south of a line extending east from Cape Douglas (58° 52' N. lat.), west of 150° W. long., north of 55° 30' N. lat., and east of a line extending south from the southern entrance of Imuya Bay near Kilokak Rocks (156° 20' 13" W. long.).

(b) Repealed 4/15/81. (In effect before 1988)

Authority: AS 16 05.251(a)

5 AAC 27.505. DESCRIPTION OF DISTRICTS AND SECTIONS. (a) Afognok district: all waters north of a line from Occident Point (57° 57′ 25″ N. lat., 152° 51′ 30″ W. long.) to Last Timber Point (57° 58′ 50″ N. lat., 152° 58′ 65″ W. long.), north of a line extending west on the latitude of Raspberry Cape (58° 03′ 35″ N. lat.) to midstream of Shelikof Strait, east of midstream of Shelikof Strait, west of a line from Dolphin Point (57° 59′ 10″ N. lat., 152° 43′ 25″ W. long.) to Cape Izhut (58° 06′ 10″ N. lat., 152° 20′ 20″ W. long.) to Pillar Cape (68° 09′ N. lat., 152° 06′ 40″ W. long.) and north of the latitude of Pillar Cape;

(1) Ruspberry Straits section: all waters of Raspberry Straits encompassed by a line extending from Raspberry Cape (58° 03' 35" N. lat., 153° 25' W. long.) to Steep Cape (58° 12' N. lat., 153° 12' 30" W. long.) and by lines from Head Point (57° 59' 40" N. lat., 152° 46' 10" W. long.) from Occident Point (57° 57' 25" N. lat., 152° 51' 30" W. long.) to Last Timber Point (57° 58' 50" N. lat., 152° 58' 55" W. long.);

(2) Mulina Bay section: all waters of Malina Bay east of a line from Steep Cape (58° 12' N. lat., 153° 12' 30" W. long.) to Cape Paramanof (58° 18' 20° N. lat., 153° 03' 30" W. long.);

(3) Paramanof Bay section: all waters of Paramanof Bay and Foul Bay east of a line from Cape Paramanof (58° 18' 20" N. lat., 153° 03' 30" W. long.) to Steep Cape (58° 12' N. lat., 153° 12' 30" W. long.)

(A) Paramanof Bay Subsection: all waters of Paramanof Bay east of a line from Cape Paramanof (59° 18' 20" N. lat., 153° 03' 30" W. long.) to the westernmost tip of Ban Island and south of the latitude of the southernmost tip of Ban Island:

(B) Foul Bay Subsection: all waters of Foul Bay east of a line from the westernmost tip of Ban Island to Black Cape (58° 24' 30" N. lat., 152° 53' W. long.):

(4) Bluefox Bay section: all waters encompassed by a line from Cape Paramanof (58° 18' 20" N. lat., 153° 03' 30" W. long.) to Cape Newland (58° 30' 30" N. lat., 152° 53' W. long.) and by the longitude of Cape Current (152° 29' 10" W. long.) north to Shuyak Island;

(5) Offshore West Afognak section: all waters encompassed by lines extending west along the latitudes of Raspberry Cape (58° 03' 35" N. lat.) and Cape Newland (58° 30' 30" N. lat.) to midstream of

Shelikof Strait, and by lines from Ruspberry Cape to Steep Cape to Cape Paramanof to Cape Newland;

(6) Shuyak Island section: all waters north of the latitude of Cape Newland, west of the longitude of Cape Currant, and north of a line from Cape Currant to Tolstoi Point (58° 23′ 45″ N. lat., 152° 07′ 30″ W. long.), to Tonki Cape (58° 21′ N. lat., 151° 59′ W. long.) and north of the latitude of Pillar Cape (58° 09′ N. lat.);

(7) Perenosa-Seal Bays section: all waters of Perenosa Bay and Seal Bay south of a line from Cape Currant to Tolstoi Point

(A) Delphin Bay Subsection: all waters of Delphin Bay south and west of a line from Delphin Point (58° 22' 20" N. lat., 152° 26' 10" W. long.) to Cape Current;

(B) Perenosa Bay Subsection: all waters of Perenosa Bay south of a line from Cape Currant to Posliedni Point, excluding the Delphin Bay Subsection;

(C) Seal Bay Subsection: all waters of Seal Bay south of a line from Posliedni Point to Tolstoi Point;

(8) Tonki Bay section; all waters of Tonki Bay south of a line from Tolstol to Tonki Cape;

(9) Izhut Bay section: all waters of Izhut and Kitoi bays north of a line from Pillar Cape (58° 09' N. lat., 152° 06' 40" W. long.) to Cape Izhut (58° 06' 10" N. lat., 152° 20' 20" W. long.)

(A) Izhut Bay Subsection: all waters of Izhut Bay north of 58° 10' 39" N. lat.;

(B) Kitol Bay Subsection: all waters of Kitol Bay west of a line from 58° 10′ 39° N. lat., 152° 17′ 13" W. long. to 58° 09′ 32" N. lat., 152° 18′ 36" W. long.;

(C) MacDonalds Lagoon Subsection: all waters of Izhut Bay bounded by 58° 10′ 39° N. lat., the eastern boundary of the Kitoi Bay Subsection, and a line from Cape Izhut to Pillar Cape;

(10) Danger Bay section: all waters north of a line from Cape Izhut to Dolphin Point (57° 59' 10" N. lat., 152° 46' 10" W. long)

(A) Danger Bay Subsection: all waters of Danger Bay north of a line from Cape Kazakof (58° 04' 40" N. lat., 152° 37' 40" W. long.) to Cape Kostromitinof (58° 05' 05" N. lat., 152° 32' 30" W. long.);

(B) Litnik Subsection: all waters of Afognak Bay enclosed by a line from Head Point to Dolphin Point and the longitude of Dolphin Point;

(C) Inshore Marmot Subsection: all waters of Marmot Bay enclosed by a line from Cape Izhut to Dolphin Point, by the longitude of Dolphin Point, and by a line from Cape Kazakof to Cape Kostromitinof.

(b) Uganik Bay District: all waters north of the latitude of Cape Kuliuk (57° 48′ 10″ N. lat.) to midstream Shelikof Strait, and south of the latitude of Raspberry Cape to midstream Shelikof Strait, east of midstream Shelikof Strait, and including the waters of Kupreanof

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Straits west of a line from Inner Point (57° 54′ 06″ N. lat., 152° 47′ 40″ W. long.) to Bird Point (57° 55′ 20″ N. lat., 152° 47′ 25″ W. long.) and south of a line from Occident Point (57° 57′ 25″ N. lat., 152° 51′ 30″ W. long.) to Last Timber Point (57° 58′ 50″ N. lat., 152° 58′ 55″ W. long.); •

(1) Kupreanof section: all waters encompassed by a line from Raspberry Cape to Outlet Cape (57° 59′ 55″ N. lat., 153° 17′ W. long.) and by lines from Inner Point to Bird Point and from Occident

Point to Last Timber Point:

(2) Terror-Vickoda Section: all waters enclosed by a line from Raspherry Cape to Cape Uganik, from Raspherry Cape to Outlet Cape (57° 59' 55' N. lat., 153° 17' W. long.) and in West Uganik Passage, east of a line at 153° 15' 42" W. long.;

(A) Vickoda Bay Subsection: all waters of Inner Vickoda Bay east of the longitude of Naugolka Point (57° 33' 30" N. lat., 152°

13' 40" W. long.);

(B) Terror Bay Subsection: all waters of Terror Bay and Outer Viekoda Bay enclosed by lines from Raspberry Cape to Cape Uganik and from Raspberry Cape to Outlet Cape, and all waters of West Uganik Passage east of 163° 15' 42" W. long.;

(3) Inner Uganik Section: all waters of Uganik Bay south of a line from Cupe Uganik to Cape Ugat (57° 52′ 20″ N. lat., 153° 50′ 40″ W. long.) and in West Ugunik Passage, west of a line at 153° 15′ 42″

W. long.;

- (A) Village Islands Subsection: all waters of Uganik Bay south of a line from Cape Ugat to Cape Uganik (57° 52′ 20″ N. lat., 153° 50′ 40″ W. long.), west of lines from Cape Uganik to East Point (57° 50′ 30″ N. lat., 153° 28′ 30″ W. long.) and from East Point to Rock Point at 57° 46′ 25″ N. lat., 153° 29′ 10″ W. long., and north of the latitude of Packer's Spit (57° 44′ 30″ N. lat.);
- (B) West Uganik Pass Subsection: all waters of West Uganik Passage west of 153° 15' 42° W. long, and east of a line from Cape Uganik to East Point;
- (C) Northeast Arm Ugunik Subsection: all waters of the northeast arm of Uganik Bay east of a line from East Point to Rock Point:
- (D) East Arm Uganik Subsection: all waters of Mush Bay and that portion of Inner Uganik Bay south of the latitude of Packer's Spit (57° 44′ 30° N. lat.), and north of the latitude of Mink Point (57° 43′ N. lat.);
- (E) South Arm Uganik Subsection: all waters of the south arm of Uganik Bay south of the latitude of Mink Point;
- (4) Outer Uganik section: all waters south of the latitude of Rospberry Cape, north of the latitude of Cape Kuliuk, east of midstream of Shelikof Strait and west of a line from Cape Uganik to Cape Ugat (57° 52' 20° N. lat., 153° 50' 40° W. long.).

(c) Uyak district: all waters south of the latitude of Cape Kuliuk to midstream of Shelikof Strait and north of the latitude of Cape Kurluk to midstream of Shelikof Strait, and east of midstream of Shelikof Strait and including all of Uyak Bay:

(1) Offshore Uyak Section: all waters of the latitude of Cape Kuliuk to midstream Shelikof Strait and north of the latitude of Cape Karluk (57° 34′ 42″ N. lat.) to midstream Shelikof Strait, east of midstream Shelikof Strait, and west of a line from Cape Kuliuk to

Cape Karluk:

(2) Harvester Island Section: all waters north of the latitude of Carlsen Point (57° 34' 48" N. lat.) west of 153° 50' W. long, and south of a line from Cape Kuliuk to Cape Karluk;

(3) Inner Uyak Bay section: all waters south of the latitude of Carlsen Point

(A) Larsen Bay Subsection; all waters of Larsen Bay west of 153° 58' 12" W. long.;

(B) Inner Uyak Bay Subsection: all waters of Inner Uyak Bay south of the latitude of Carlson Point, excluding the Larson Bay Subsection:

(4) Zachar Bay section: all waters of Zachar Bay east of 153° 50' W. long.:

(5) Spiridon Bay section: all waters of Spiridon Bay east of 153' 50' W. long.

(d) Sturgeon-Halibut Bay District: all waters south of the latitude of Cape Karluk to midstream Shelikof Strait and north of the latitude of Cape Ikolik (57° 17' 26" N. lat.) to midstream of Shelikof Strait and east of midstream Shelikof Strait and including all bays from Cape Ikolik to Cape Karluk.

(e) Alitak Bay district: all waters east of the longitude of Cape Ikolik, west of the longitude of Black Point (153° 18' W. long.), south of the latitude of Black Point (57° N. lat.) to Cape Kiavak (57° N. lat., 153° 33' W. long.):

(1) Outer Alitak Bay Section: all waters east of the longitude of Cape Ikolik, west of the longitude of Black Point and west of a line from Cape Trinity (56° 44′ 50″ N. lat., 154′ 08′ 45″ W. long.) to the westernmost tip of Aiaktalik Island, and south of a line from Black Point to the northernmost tip of Twoheaded Island, from the southernmost tip of Twoheaded Island, from the form Cape Trinity to Cape Alitak (56° 50′ 40° N. lat., 154° 18′ W. long.):

(2) Inner Alitak Bay section: all waters north of a line from Cape Trinity to Cape Alitak, south of the latitudes of Cape Hepburn (56° 07' 30" N. lat.) and Bun Point (56° 58' 25" N. lat.), including the waters of Deadman Bay;

(A) Inner Alitak Bay Subsection: all waters enclosed by a line from Cape Alitak to Cape Trinity, south of the latitude of Cape

(B) Deadman Bay Subsection: all waters of Deadman Bay north of a line from Cape Hepburn to Bun Point;

(3) Sulua Portage section: all waters of Sulua and Portage bays north of the latitude of Cape Hepburn;

(4) Lower Olga-Moser Bay Section: all waters of Lower Olga and Moser Bays encompussed L, e from Stockholm Point (57° 07' 40" N. lat., 154" 06' 36" W. lon, .. the terminus of Silver Salmon Creck (No. 257-303) and the latitude of Bun Point;

(5) Upper Olga Bay section; all waters of Upper Olga Bay south of a line from Stockholm Point to the terminus of Silver Salmon Creek (no. 257-303):

(6) Geese-Twoheaded section: all waters encompassed by lines from Cape Trinity to the westernmost tip of Aiaktalik Island, from the easternmost tip of Aiaktalik Island to the southernmost tip of Twoheaded Island, from the northernmost tip of Twoheaded Island to Black Point and south of the latitude of Black Point to Cape

(f) General district: all waters north of the latitude of Black Point to Kodiak Island, east of the longitude of Black Point and east of lines from Pillar Cape to Cape Izhut, from Cape Izhut to Dolphin Point and from Bird Point to Inner Point, and south of the latitude of Pillar Cape:

(1) Kaiugnak Section: all waters of West Sitkalidak Straits and associated bays south of the latitude of Cape Kaisak and north of a line from Black Point to Cape Kiavak;

(2) Inner Sitkelidak Section: all waters encompassed by the longitude of Old Harbor and by lines from Cape Barnahas (59° 09' N. lat., 152° 53' W. long.) to Dangerous Cape (57° 16' 36" N. lat., 152° 42' 18" W. long.) and from Dangerous Cape to Left Cape (57° 15' 30" N. lat., 152° 57' W. long.);

(A) Tanginak Anchorage Subsection: all waters of MacDonald Lagoon and Tanginak Anchorage south of the latitude of Lagoon Point (57° 11' 15" N. lat., 153° 04' W. long.);

(B) East Sitkalidak Subsection: all waters of East Sitkalidak Straits and associated bays enclosed by a line from Left Cape (57° 15' 30" N. lat., 152° 57' W. long.) to Cape Barnabas (59° 09' N. lat., 152° 53' W. long.) and the latitude of Old Harbor (57° 12' 15" N. lat.);

(C) West Sitkulidak Subsection: all waters of West Sitkalidak Straits and associated bays south of the latitude of Old Harbor and north of the latitude of Cape Kasiak, excluding the Barling Bay Subsection;

(D) Barling Bay Subsection: all waters of Barling Bay west of a line from Old Harbor to Barling Spit (57° 10' 15" N. lat.);

(3) Outer Sitkalidak section: all waters east of the longitude of Black Point, south of the latitude of Narrow Cape and east of lines from Cape Barnabas to Dangerous Cape and from Dangerous Cape to Narrow Cape:

FISH AND GAME

(4) Kiliuda Bay section; all waters of Kiliuda Bay and Boulder Bay north of a line from Left Cape to Dangerous Cape;

(A) Shearwater Subsection; all waters of Shearwater Bay east of a line from Shearwater Point (57° 20' N. lat., 152° 58' W. long.) to Pillar Point (57° 19' 15" iv. sat., 152" 54' 30" W. long.);

(B) Outer Kiljuda Subsection: all waters of Outer Kiljuda, Santa Flavia, and Boulder bays enclosed by a line from Dangerous Cape to Cape Barnabas to Left Cape to Shearwater Point;

(C) Inner Kiliuda Subsection; all waters of Inner Kiliuda Bay west of a line from Left Cape to Shearwater Point;

(5) Ugak Bay section: all waters of Ugak Bay north of a line from Dangerous Cape to Narrow Cape;

(A) Inner Ugak Subsection: all waters of Ugak Bay west of 152° 49' W. long .:

(B) Outer Ugnk Subsection: all waters of Ugak Bay east of 152° 49' W. long, and north and west of a line from Dangerous Cape to Narrow Cape:

(6) Women's Bay section: all waters of Women's Bay west of a line from Cliff Point (57° 43' 30" N. lat., 152° 26' 45" W. long.) to the terminus of Buskin River (no. 259-211):

(7) Monashka-Mill Bay Section: all waters of Monashka Bay and Mill Bay west of a line from Termination Point (57" 51' 15" N. lat.. 152° 24' W. long.) to Spruce Cape (57° 49' 36" N. lat., 152° 19' 24" W.

(8) Anton-Sharatin Bays section: all waters of Anton Larsen Bay and Sharatin Bay south of a line from Kizhuyak Point (57° 55' 15" N. lat., 152° 36′ 30" W. long.) to Kekur Point (57° 51′ 30" N. lat., 152° 47' W. long.);

(A) Anton Larsen Bay Subsection: all waters of Anton Larsen Bay south of a line from Kizhuyak Point (57° 55' 15" N. lat., 152° 36' 30" W. long.) to Crag Point (57" 52' 45" N. lat., 152° 40' 25" W. long.);

(B) Sharatin Bay Subsection: all waters of Sharatin Bay south of a line from Crag Point to Kekur Point (57° 51' 30" N. lat., 152° 47' W. long.);

(9) Kizhuyak Bay Section: all waters of Kizhuyak Bay west of a line from Kekur Point to Inner Point (57° 54' 06" N. lat., 152° 47' 40" W. long.);

(10) Inshore Marmot-Chiniak section: all waters encompassed by lines from Cape Chiniak (57° 37' N. lat., 152° 10' W. long.) to Pillar

Cape, from Pillar Cape to Cape Izhut, from Cape Izhut to Dolphin Point and from Bird Point to Inner Point;

(A) Kalsin Bay Subsection: all waters of Kalsin Bay south and west of a line from Cape Chiniak to Broad Point;

(B) Middle Buy Subsection: all waters of Middle Buy south and west of a line from Broad Point to Cliff Point;

(C) Inshore Chiniak Subsection: all waters of Chiniak Bay enclosed by lines from Cape Chiniak to Broad Point to Cliff Point to the terminus of Buskin River (No. 259-211), and from Spruce Cape to Pillar Cape to Cape Chiniak;

(D) Spruce Island Subsection: all waters of Marmot Bay and adjucent bays and islands enclosed by a line from Spruce Cape to Pillar Cape to Cape Island to Dolphin Point to Inner Point to Kekur Point to Crag Point to Kizhuyak Point:

(11) Offshore Marmot Chiniak section: all waters east of a line from Pillar Cape to Cape Chiniak, south of the latitude of Pillar Cape and north of the latitude of Narrow Cape.

(g) Mainland District: all waters south of the latitude of Cape Douglas; west of midstream Shelikof Strait; south of the latitude of Cape Ikolik west to midstream of Shelikof Strait, west of the longitude of Cape Ikolik and east of the longitude of Kilokak Rocks (57° 11′ 22″ N. lat., 156° 20′ 13° W. long.);

(1) North Mainland section: all waters south of the latitude of Cape Douglas and to midstream of Shelikof Strait; and north of the latitude of Cape Nukshak and east to midstream of Shelikof Strait and west of midstream of Shelikof Strait:

(2) Inner Kukak acction: all the waters west of a line from Cape Nukshak (58° 23' 30" N. lat., 153° 58' 45" W. long.) and Cape Gull (58° 13' N. lat., 154° 08' 30" W. long.);

(3) Outer Kukak section: all waters encompassed by a line from Cape Nukshak to Cape Gull, east of the latitude of Cape Nukshak to midstream of Shelikof Strait, east of the latitude of Cape Gull to midstream of Shelikof Strait, and by a line midstream of Shelikof Strait;

(4) Missak section: all waters south of the latitude of Cape Gull east to midstream of Shelikof Strait and north of the latitude of Cape Ilktugitak to midstream of Shelikof Strait;

(5) Inner Katmai Section: all waters west of a line from Cape Ilktugitak (58° 01' 15" N. lat., 154° 34' 45" W. long.) to Cape Kubugakli (57° 53' 30" N. lat., 155° 03' 35" W. long.);

(6) Outer Katmai section: all waters encompassed by the lutitude of Cape Ilktugituk east to midstream of Shelikof Strait, the lutitude of Cape Kekurnoi east to midstream of Shelikof Strait, west of midstream of Shelikof Strait, east of lines from Cape Ilktugitak to Cape Kubugukli and from Cape Kubugukli to Cape Kekurnoi (57° 43′ 30° N. lat., 155° 07′ 60° W. long.);

(7) Alinchak section: all waters west of a line from Cape Kubugakli to Cape Kekurnoi:

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(8) Punle Bay section: all waters west of a line from Cape Kekurnoi to Cape Unalishagvak (57*32' 45" N. lat., 155' 43' 40" W. long.):

(9) Portage Bay Section: all waters west of a line from Cape Unalishagyak to Cape Igvak (57° 26' N. lat., 156° 01' W. long);

(10) Outer Portage Puale section: all waters south of the latitude of Cape Kekurnoi east to midstream of S' of Strait, north of the latitude of Cape Igvak east to midstream of Shelikof Strait, west of midstream of Shelikof Strait ar east of lines from Cape Kekurnoi to Cape Unalishagyak and from Cape Unalishagyak to Cape Igvak;

(11) Wide Bay section: all waters west of a line from Cape Igvak to Kilokak Rocks:

(12) Lower Shelikof section: all waters east of the longitude of Kilokak Rocks, west of the longitude of Cape Ikolik, south of the latitude of Cape Igvak, west to midstream of Shelikof Strait and south of the latitude of Cape Ikolik and east to midstream of Shelikof Strait. (In effect before 1985; am 5/11 85, Register 94; am 6/2/88, Register 106; am 7/23/88, Register 107)

Authority: AS 16.05.251

5 AAC 27.510. FISHING SEASONS AND PERIODS. (a) Herring may be taken from April 15 through June 30 (sac roe season) and from August 1 through February 28 (food and bait season).

(b) Herring may be taken only during periods established by emergency order. (In effect before 1982; am 4/14/82, Register 82; am 5/11/85, Register 94)

Authority: AS 16.05 060 AS 16.05.251

5 AAC 27.515. GEAR. (a) Herring may be taken only by seines, gill nets and trawls, except that beach seines and trawls may not be used to take herring during the sac roe season.

(b) A herring fishing vessel may operate or assist in operating, or have aboard it, only one legal limit of herring fishing gear in the aggregate, except that a herring fishing vessel may tow or transport other herring fishing vessels containing those vessels own gear.

(c) Unhung gear sufficient for mending purposes may be carried abourd fishing vessels.

(d) A purse selne, hand purse seine or beach seine may not be fished simultaneously with gill net gear by any person or vessel.

(e) Herring fishing nets shall be measured, either wet or dry, by determining the maximum length of cork line when the net is fully extended with traction applied at one end only.

(f) The interim-use or entry permit holder is responsible for operation of the net.

(g) The use of leads with any net gear used for commercial herring fishing is prohibited during the herring sac roe season. (In effect before 1982; am 4/14/82, Register 82; am 6/2/88, Register 106)

Authority: AS 16.05 251

5 AAC 27.520, GILL NET SPECIFICATIONS AND OPERA-TIONS. (a) The aggregate length of herring gill nets in use by any herring CFEC permit holder may not exceed 150 fathoms.

(b) The interim-use or entry permit holder must be physically present while the gill net is being fished.

(c) Each drift gill net in operation must have a buoy at one end and the opposite end must be attached to the fishing vessel. Each set gill net in operation must be anchored and buoyed at both ends. All buoys must be at least 10 inches in diameter and all buoys used on an individual gill net must be of the same color. Each buoy must be plainly and legibly marked with the permanent vessel license plate number (AI)F&G number) of the vessel operating the gear. The buoy may bear only a single number, and this number must be that of the vessel used in operating the gear. The number must be painted on the top one-third of the buoy in numerals at least four inches in height, one half inch in width, and in a color contrasting to that of the buoy. The buoy markings must be visible on the buoy above the water surface. Set gill note must have a buoy spaced every 25 fathoms along the net and the buoys must be floating on the surface of the water.

(d) Herring gill nets may remain in the water two hours after the announced closing time for any opening of three hours or less fishing time. No herring gill nets may be reset after a closure time. Herring gill nets may remain in the water two hours after an emergency order closure if that closure is announced by the department less than three hours before the closure time. (In effect before 1982; am 4/14/82, Register 82; am 5/11/85, Register 94; am 6/2/88, Register 106)

Authority: AS 16.05 261

5 AAC 27.525. SEINE SPECIFICATIONS AND OPERA-TIONS. (a) No purse seine may be more than 1,000 meshes in depth or more than 100 fathoms in length.

(b) Repealed 4/14/82.

(In effect before 1982; am 4/14/82, Register 82; am 5/11/85, Register 94)

Authority: AS 16 05 251

5 AAC 27.530. WATERS CLOSED TO HERRING FISHING. (a) During the period June 12 through October 31, herring may not be taken in waters described in 5 AAC 18.350 and 5 AAC 39.290.

(b) From April 15 through June 12, herring may not be taken in the

following waters:

(1) Brown's Lagoon: in the Lagoon;

(2) Women's Bay: all waters enclosed by a line from Shannon's Point (58° 43' 48" N. lat., 152° 31' 36" W. long.) to Nymans Peninsula (57° 43' 18" N. lat., 152° 31' 24" W. long.), (In effect before 1982; am 4/14/82, Register 82; am 6/2/88, Register 106)

Authority: AS 16.05.251

5 AAC 27.531. GILL NET SPECIFICATIONS AND OPERA-TION. Repealed 4/15/81.

5 AAC 27.532. SEINE SPECIFICATIONS AND OPERA-TION. Repealed 4/15/81.

5 AAC 27.535. HARVEST STRATEGIES. (a) The department shall manage the herring food bait fishery so that the food bait harvest does not exceed 10 percent of the actual herring sac roe harvest in the previous season.

(b) Repealed 5/31/85

(c) The department shall manage the herring food/bait fishery that is directed on Kamishak spawning stocks overwintering in the eastern Shelikof Straits so that the food/bait harvest does not exceed 2 percent of the total biomass of Kamishak stocks, as determined by the department during the most recent Kamishak herring sac roc season. (In effect before 1982; am 4/14/82, Register 82; am 5/11/85, Register 94; am 5/31/85, Register 94; am 6/2/88, Register 106)

Authority: AS 16.05.060 AS 16.05.251

5 AAC 27.536. SIZE LIMITS. No CFEC herring seine permit holder may sell or have aboard a vessel any herring that were taken during the herring sac roe season if the number of individual herring per 50 pounds of net weight exceeds 250 fish. (Eff. 6/2/88, Register 106)

Authority: AS 16.05.251

5 AAC 27.540. BUYER AND TENDER REPORTING RE-QUIREMENTS. In addition to the requirements of 5 AAC 39, 130(f) each tender operator and each buyer or his agents shall report in person to and register with a local representative of the department

upon arrival in the statistical area before commencing operations and before changing location of the operation. Each buyer shall

(1) identify all vessels to be employed in transporting or processing herring and shall register such vessels with a local representative of the department located in the statistical area before transporting or processing herring;

(2) make duily reports of all herring purchased from fishermen and other processing records as specified by a local representative of the department; and

(3) submit fish tickets before departure from the area and no later than 10 days after termination of buying operations in the area, or as otherwise specified by a local representative of the department. (In effect before 1988)

Authority: AS 18 05 251(a) AS 16 05 690

Article 9. Stutistical Area L - Chignik Area

Section

550 Description of area

555. Description of districts

560 Fishing seasons and weekly fishing
periods

660. Gear

Section

875. Seine specifications and operations

580. Waters closed to herring fishing

690. Buyer and tender reporting requirements

5 AAC 27.550. DESCRIPTION OF AREA. Statistical area L includes all waters on the south side of the Alaska Peninsula enclosed by 156° 20′ 13″ W. long (the longitude of the southern entrance to Imuya Bay near Kilokak Rocks) and a line extending southeast (135°) from the southernmost tip of Kupreanof Point. (In effect before 1988)

Authority: AS 16.05.251(a)

5 AAC 27.555. DESCRIPTION OF DISTRICTS. Districts are as described in 5 AAC 15.200. (In effect before 1988)

Authority: AS 16 05.251(a)

- 5 AAC 27.560. FISHING SEASONS AND WEEKLY FISHING PERIODS. (a) Herring may be taken from April 15 through June 30 (sac roe season) and from August 15 through February 28 (food and bait season).
- (b) Herring may be taken only during periods established by emergency order. (In effect before 1982; am 4/14/82, Register 82)

Authority: AS 16 05 060 AS 16 05 251(a) 5 AAC 27.565. GEAR. (a) Herring may be taken only by purse seines.

(b) A herring fishing vessel may operate or assist in operating only one legal limit of herring fishing gear in the aggregate.

(c) Unhung gear sufficient for mending purposes may be carried aboard fishing vessels.

(d) Herring fishing nets shall be measured, either wet or dry, by determining the maximum length of cork line when the net is fully extended with traction applied at one end only.

(e) The interim-use or entry permit holder is responsible for operation of the net.

(f) The use of leads with any net gear used for commercial herring fishing is prohibited during the herring sac roe season. (In effect before 1982; am 4/14/82, Register 82)

Authority: AS 16.05.251(a)

5 AAC 27.575. SEINE SPECIFICATIONS AND OPERA-TIONS. No purse seine may be more than 1,000 meshes in depth or more than 100 fathoms in length. (In effect before 1988)

Authority: AS 18.05.251(a)

5 AAC 27.580. WATERS CLOSED TO HERRING FISHING. During the period June 12 through October 31, herring may not be taken in waters described in 5 AAC 15 350 and 5 AAC 39.290. (In effect before 1988)

Authority: AS 16.05.251(a)

5 AAC 27.590. BUYER AND TENDER REPORTING REQUIREMENTS. In addition to the requirements of 5 AAC 39. 130(f), each tender operator and each buyer or his agents shall report in person to and register with a local representative of the department upon arrival in the statistical area before commencing operations and before changing location of the operation. Each buyer shall

(1) identify all vessels to be employed in transporting or processing herring and shall register such vessels with a local representative of the department located in the statistical area before transporting or processing herring;

(2) make daily reports of all herring purchased from fishermen, and other processing records as specified by a local representative of the department; and

(3) submit fish tickets before departure from the area and no later than 10 days after termination of buying operations in the

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